



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H111056

**Mode:** Highway

**Status:** Submitted

### SR-1771

**From/Cross Street:** SR 1008 (Mount Carmel Church Road)

**Specific Improvement Type:** 10 - Improve Intersection

**To:** 1913 (Bennett Road)

**Project Category:** Division Needs

**Length:** 0.5

**TIP#:**

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$775,000

#### Description:

Construct Roundabout and Related Safety Improvements at the Existing intersection of Mount Carmel Church Road and Bennett Road.

**Division(s):** Division 7

**County(s):** ORANGE

**MPOS(s)/RPO(s):** Durham Chapel Hill Carrboro MPO

#### Project Location



**Statewide Mobility Total Score: 0**

| Quantitative Score                          | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| <b>Totals: Weight: 0% Weighted Score: 0</b> | N/A                                     | N/A                           |

**Regional Impact Total Score: 0**

| Quantitative Score                          | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|---|---|-------------------------------|
| <b>Totals: Weight: 0% Weighted Score: 0</b> | Percent: 15%<br>Points: 0               | Percent: 15%<br>Points: 0     |

**Division Needs Total Score: 64.76**

| Quantitative Score                               | Division Engineer<br>Local Input Points | MPO/RPO Local<br>Input Points |
|--|---|-------------------------------|
| Congestion (V/C) (20%) 40.87                     | Percent: 25%                            | Percent: 25%                  |
| Safety (10%) 50.00                               | Points: 100                             | Points: 100                   |
| [Travel Time] Benefit/Cost (20%) 7.92            |   |                               |
| <b>Totals: Weight: 50% Weighted Score: 14.76</b> |   |                               |

**Project Data \*****Existing Conditions**

|   |                |
|---|----------------|
| Existing Cross-Section:                     |                |
| Speed Limit:                                | 38             |
| Length (miles):                             | 0.5            |
| Facility Type:                              | Arterial       |
| Access Control:                             | None           |
| Functional Classification:                  | Minor Arterial |
| Terrain Type:                               | Rolling        |
| Lane Width:                                 | 10             |
| Paved Shoulder Width:                       | 0              |
| Roadway has Curb & Gutter?                  | No             |
| Volume (AADT):                              | 18225.87       |
| Capacity:                                   | 32561.92       |
| Volume/Capacity Ratio:                      | 0.56           |
| % Autos:                                    | 100%           |
| % Trucks:                                   | 0%             |
| Truck Volume:                               | 0              |
| Crash Density:                              | 0              |
| Crash Severity:                             | 0              |
| Critical Crash Rate:                        | 0              |
| Crash Frequency:                            | 66.7           |
| Severity Index:                             | 33.3           |
| County Tier Designation:                    | 3              |
| Non-Interstate STRAHNET Route?              | No             |
| Average Commuting Time:                     | 24             |
| Existing Median Type (for Cost Estimation): | Undivided      |
| Pavement Condition Rating:                  | 93             |
| Actual Congested Speed:                     | 0              |
| Travel Time Index:                          |                |

**Project Benefits**

|  |                |
|--|----------------|
| Project Cross-Section:                                 |                |
| Speed Limit:   | 38             |
| Length (miles):  | 0.5            |
| Facility Type:   | Arterial       |
| Access Control:  | None           |
| Functional Classification:                             | Minor Arterial |
| Terrain Type:  | Rolling        |
| DOT Design Lane Width:                                 | 12             |
| DOT Design Paved Shoulder Width:                       | 4              |
| Travel Time Savings for 30 Years (Total):              | 279000         |
| Travel Time Savings for 30 Years (Autos):              | 279000         |
| Travel Time Savings for 30 Years (Trucks):             | 0              |
| Long-Term Employment:                                  |                |
| % Change in Economy:                                   |                |
| Provides Direct Connection to Transportation Terminal? | No             |
| Does project upgrade how the roadway functions?        | No             |
| In CTP or LRTP?  | No             |
| CTP/LRTP Name:   |                |
| CTP/LRTP Completion Year:                              |                |
| Submitted by:  | Division 7     |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 7                   | 100%           | 0                      | 100                   |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>100</b>            |

**MPO/RPO**

| <b>MPO/RPO</b>                  | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|---------------------------------|----------------|------------------------|-----------------------|
| Durham Chapel Hill Carrboro MPO | 100%           | 0                      | 100                   |
|                                 | 0%             | 0                      | 0                     |
|                                 | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b>     |                | <b>0</b>               | <b>100</b>            |

**Project Cost and Source**

|                        |                  |                      |
|------------------------|------------------|----------------------|
| Construction Cost:     | \$625,000        | Cost Estimation Tool |
| Right-of-Way Cost:     | \$150,000        | Cost Estimation Tool |
| Utilities Cost:        | \$0              | Cost Estimation Tool |
| Total Project Cost:    | \$775,000        |                      |
| Other Funding:         | \$0              | None                 |
| <b>Cost to NCDOT :</b> | <b>\$775,000</b> |                      |